

L 04702-6/

ACC NR: AP6028010

the surface of the Moon is 20-30 μ r/h.

2. About 90% of the γ -rays emitted by the surface of the Moon is produced during interaction of cosmic rays with lunar substance (prompt γ -rays and decays of cosmogenic isotopes).

3. The basic rock-forming elements of the lunar surface are believed to be O, Mg, Al, and Si.

4. No difference was noted in intensity of γ -rays emitted by different regions of the lunar surface including the seas and the continents (variation of intensity did not exceed 40%).

5. The decay of K, Th, and U in lunar rocks does not contribute more than 10% to the total γ -ray emission of the lunar surface.

6. Comparison of the intensity of γ -radiation from the decay of natural radioactive elements K, Th, and U with the results obtained by a calibrated instrument from terrestrial rocks shows that the concentration of radioactive elements in lunar rocks is close to that of basic terrestrial rocks and differs greatly from acidic rocks. However, it can not be positively stated that the lunar surface contains no ultrabasic (meteoritic) substance. At the present time an attempt is being made to determine the relative content of O, Mg, Al, and Si in lunar rocks from the available γ -ray spectra produced in interactions with cosmic rays. Orig. art. has: 3 figures and 3 tables. [FSB: v. 2, no. 10]

SUB CODE: 22 / SUBM DATE: 24Jun66 / ORIG REF: 002

tv

Card 15/15

KIRNYY, Yu. M.

120-5-12/35

AUTHORS: Almazov, A.V., and Khirnyy, Yu.M.

TITLE: A Source of Negative Hydrogen Ions (Istochnik otritsatel'nykh ionov vodoroda)

PERIODICAL: Pribory i Tekhnika Eksperimenta, 1957, No.5, pp. 54 - 58 (USSR).

ABSTRACT: This source was developed so that it could be used in the construction of a re-charging electrostatic generator of the type described by Alvarez (Ref.1). The most effective means of re-charging positive ions is to pass them through matter. Thin foils become too hot, gases cause difficulties with the vacuum system; the best suggestion is that due to Fogel' (Ref.2) in which mercury vapour is used. Fig. 1 shows an apparatus made for investigating topics connected with focussing ion-beams in the presence of mercury vapour, finding the optimum thickness of the "target", finding the maximum coefficient of re-charging protons into negative ions and its dependence on proton energy. The source of ions (1), is focussed by a three-element lens (2). The beam passes through a tube (3) 25 mm long and 8 mm dia. into the chamber containing the supersonic jet (4). This chamber is 100 mm long and is cooled by a copper rod dipping into a Dewar flask containing liquid nitrogen. The chamber temperature may be taken down to -160°C

Card1/3 analyser results shows that ions are being produced from "1" H_2^+ and H_3^+ ions. Maximum yield of H_1^- from H_2 occurs at Card2/3 an accelerating voltage of 24 kV, giving a re-charging

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722710016-5"

A Source of Negative Hydrogen Ions.

120-5-12/35

coefficient of 10%. Although this coefficient is twice that for conversion from H_1^+ the yield of the latter is 60-70% in

the first version of the ion source design and its use has been adhered to. The optimum proton energy for re-charging is 10 to 12 kV. Fig. 5a shows a general view of the first version of the ion-source based on the information derived from the apparatus described above. The jet chamber now has a double wall to reduce heat flow into the vapour space. The target is very stable; in the course of 8-10 hours continuous running, no adjustments were required. The consumption of nitrogen is 0.7 - 0.8 litres/hour. When the beam emerges through a 6 mm dia. hole the H_1^- current is 12 to 14 μA and through a 2 mm dia. hole, 8 to 9 μA . In the absence of the target, the H_1^+ current

is 300 to 360 μA in the first case and 100 to 120 μA in the second. In the "experimental" version of the jet, the critical dia. was 4 mm, the output dia., 10.8 mm, the separation between them being 46 mm. There are 5 figures and 8 references, 2 of which are Slavic.

SUBMITTED: March 14, 1957.

AVAILABLE: Library of Congress.

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000722710016-5

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000722710016-5"

KIRO, M. B.

SUZDAL'SKAYA, I.P.; KIRO, M.B.

Effect of temperature on the excitability of the muscles of the European pond turtle [with summary in English]. Biul.eksp.biol. i med. 43 no.5:28-31 My '57. (MIRA 10:10)

1. Iz laboratorii fiziologii kletki (zav. - deyavitelel'nyy chlen AMN SSSR prof. D.N.Nasonov) Fiziologicheskogo instituta (dir. - prof. N.V.Golikov) Leningradskogo gosudarstvennogo universiteta. Predstavlena deyavitelel'nym chlenom AMN SSSR D.N.Nasonovym.

(TEMPERATURE, eff.

on turtle musc. excitability (Rus))

(MUSCLES, physiol.

eff. of temperature on turtle musc. excitability (Rus))

POLYANSKIY, Yu.I., otv.red.; ALEKSANDROV, V.Ya., red.; GINETSINSKIY, A.G., red.; ZHUKOV, Ye.K., red.; ZHIRMUNSKIY, A.V., red.; KARASIK, V.M., red.; KIRO, M.B., red.; LOZINA-LOZINSKIY, L.K., red.; MIKOL'SKIY, N.N., red.; PARIBOK, V.P., red.; ROMANOV, S.N., red.; SVETLOV, P.G., red.; SOKOLOV, I.I., red.; TROSHIN, A.S., red.; USHAKOV, B.P., red.; SHERSTOBITOV, O.Ye., red.ind-vs; PEVNER, R.S., tekhn.red.

[Problems in cytology and general physiology] Voprosy tsitologii i obshchey fiziologii. Moskva, Izd-vo Akad.nauk SSSR, 1960.
398 p. (MIRA 14:1)

1. Akademiya nauk SSSR. Institut tsitologii. 2. Institut evoliutsionnoy fiziologii im. I.M.Sachenova AN SSSR, Leningrad (for Ginetsinskij). 3. Fiziologicheskiy institut im. A.A.Ukhtomskogo pri Leningradskom universitete im. A.A.Zhdanova (for Zhukov). 4. Institut eksperimental'noy meditsiny Akademii meditsinskikh nauk SSSR, Leningrad (for Karasik). 5. Institut tsitologii AN SSSR, Leningrad (for Kiro, Paribok, Sokolov). 6. Institut fiziologii im. I.P.Pavlova AN SSSR, Leningrad (for Romanov). 7. Laboratoriya embriologii Instituta eksperimental'noy meditsiny ANH SSSR, Leningrad (for Svetlov). 8. Laboratoriya fiziologii kletki Instituta tsitologii AN SSSR, Leningrad (for Troshin). 9. Laboratoriya srovnitel'noy tsitologii Instituta tsitologii AN SSSR, Leningrad (for Ushakov).

(CYTOLOGY) (PHYSIOLOGY)

KIRO, M. B.

Dependence of the survival period of isolated tissues on the
conditions of application of a chemical agent. TSitologija 2
no.4:454-459 Jl-Ag '60. (MIRA 13:9)

1. Laboratoriya gravnitel'noy tsitologii Instituta tsitologii
AN SSSR, Leningrad.

(MUSCLE)

KIRO, M.B.

Effect of the tonic and bactericidal properties of solutions on
the survival time of isolated frog muscles. TSitologija 3
no. 1:60-66 Ja-F '61. (MIRA 14:2)

1. Laboratoriya srovnitel'noy tsitologii Instituta tsitologii
AN SSSR, Leningrad.
(TISSUES—PRESERVATION)

KIRO, M.B.

Dependence of the survival time for isolated frog muscles on the
concentration of sugars in solutions. Tzitologija 3 no.5:590-595
S-0 '61. (MIRA 14:10)

1. Laboratoriya sravnitel'noy tzitologii Instituta tzitologii
AN' SSSR, Leningrad.

(MUSCLE) (SUGARS)

SUZDAL'SKAYA, I.P.; KIRO, M.B.

Effect of temperature changes on the excitability of reTRACTors of tortoises kept at different temperatures. Sbor. rab. Inst. tsit. no.6:93-101'63. (MIRA 16:8)
(TEMPERATURE—PHYSIOLOGICAL EFFECT) (MUSCLE)
(TORTOISES)

BUGAY, Arkadiy Sil'vestrovich [Buhai, A.S.]; KIRO, S.M., red.;
SHMANDIN, Yu.M., red.; KOPERSAK, G.D. [Kopersak, H.D.],
red.

[Concise explanatory mathematical dictionary] Korotkii
tlumachnyi matematichnyi slovnyk. Kyiv, Radians'ka shkola,
1964. 427 p. (NIHA 17:8)

KIRO, S.M.; SHUL'BERG, O.M.

Biography of O.M.Liapunov. Ist.-mat. sbir. 1:157-165 '59.
(NIRA 14:2)
(Liapunov, Aleksandr Mikhailovich, 1857-1918)

KIRO, S.M. (Odessa)

Mathematics at Odessa (Novorossiiskii) University. *Ist.-mat.-*
zbir. 2:22-42 '61. *(MIRA 15:4)*
(Odessa--Mathematics)

KIRO, S. N.

PA 234T75

USSR/Mathematics - Approximate Solu- 1 Apr 52
tion

"Analytical Solutions of a Certain General Par-
tial Differential Equation," S. N. Kiro, Odessa
State U imeni I. I. Mechnikov

"Dok Ak Nauk SSSR" Vol 83, No 4, pp 529-532

Acknowledges the assistance of Prof N. A. Lebedev,
who proposed the problem. Indicates how, with
the use of a certain generalization of N. M. Grom-
ter's special majoration, the theorem governing
the existence of the analytical soln of subject

234T75

eq $u_1 u_2 = f(x_1, \dots, x_n; u; u_x, \dots, \dots)$ can
be demonstrated. Submitted 6 Feb 52 by Acad
S. I. Sobolev.

234T75

KIRO, S.N.

Analytical solutions for the equation $\frac{\partial^l u}{\partial x_1^l, \partial x_2, \dots, \partial x_n, \partial x_3} = f(x_1, \dots, x_n; u; \frac{\partial u}{\partial x_1}, \dots,$
Ukr. mat. zhur. 7 no.1:29-46 '55.
(Differential equations, Partial) (MIRA 8:7)

Kiro, S. N.
Transactions of the Third All-union Mathematical Congress, Moscow, Jun-Jul '56, Trudy '56,
V. 1, Sect. Rpts., Izdatel'stvo ANSSSR, Moscow, 1956, 237 pp.

Call Nr: AF 1108825
Mention is made of Romer, P. E., Vashchenko-Zakharchenko, M. G.,
Yermakov, V. P., Grave, D. A., Bukreyev, Pokrovskiy, Pfeiffer,
Vel'min, V. P., Abramovich, K. F., Delone, B. N., Zhilinskiy, Ye. I.,
Ostrovskiy, A. M., Shmidt, O. Yu., and Chebotarev, N. G.

Kiro, S. N. (Odessa). Mathematics at the Congresses of Russian
Nature Researchers and Physicians. 231-232

Chebyshev, P. L., Imshenetskiy, V. G., Markov, A. A., Korkin, A. N.,
Sonin, N. Ya., Zolotarev, Ye. I., Voronoy, G. F., Kovalevskaya, S. V.,
Zhukovskiy, N. Ye., Steklov, V. A., Davidov, A. Yu., Bugayev, N. V.,
Mlodzeyevskiy, B. K., Yegorov, D. F., Yermakov, V. P., Andreyev, K. A.,
Sintsov, D. M., Vasil'yev, A. V., Dolbni, I. P., Chaplygine, S. A.,
Sokhotskiy, Yu. V., Bobynin, V. V.

Kol'man, E. Ya. (Moscow). On Certain Unsolved Problems in
the History of Ancient Mathematics. 232

Mikhaylov, G. K. (Moscow). The Youth of Leonard Euler
and his First Scientific Works. 232

Card 78/80

SHVETS, M.N.; KIRO, S.N.

Mathematics clubs and contests in Odessa. Mat. pros. no.3;
234-238 '58. (MIRA 11:9)
(Odessa--Mathematics)

KIRO, S. N.
KIRO, S.N. (Odessa).

Development of mechanical means for solutions of algebraic equations.
Vop. ist. est. i tekhn. no. 4:169-171 '57. (MIRA 11:1)
(Mathematical instruments)

KIR. S.N.

b4

16(1)

PHASE I BOOK EXPLOITATION SOV/1366

Istoriko-matematicheskiye issledovaniya, vyp. 11 (Research in Mathematical History, Nr 11) Moscow, Fizmatgiz, 1958. 792 p. 3,000 copies printed.

Eds. (Title page): Rybkin, G.F. and Yushkevich, A.P.; Ed. (Inside book): Konoplyankin, A.A.; Tech. Ed.: Murashova, N. Ya.

PURPOSE: This book is intended for mathematicians and others interested in the history of mathematics, and may serve as the basis for a suitable university text on the history of mathematics, thereby filling the most serious gap in Soviet mathematical literature.

COVERAGE: This book contains reports made by members of the section on the history of mathematics at the Third All-Union Mathematical Congress which discussed problems of the history of mathematics and various articles on the significance of the history of mathematics

Card 1/8

Research in Mathematical History (Cont.)

sov/1366

for mathematics itself and for the other sciences. There are also four articles on the history of mathematics in Czechoslovakia and Rumania, an article on the investigation of the algebraic roots of differential calculus in connection with a study of the mathematical writings of K. Marx, and an article on the work done on negative numbers by the Arabian mathematician, Abu-l-Wafa. A series of articles on various texts and documents connected with the history of mathematics, including a translation of the treatise *De Configuration Qualitatum* by N. Oresme and two articles concerning it, concludes the book.

Card 2/8

Research in Mathematical History (Cont.)

SOV/1366

TABLE OF CONTENTS:

From the Editors

7

PAPERS SUBMITTED BY THE SECTION ON THE HISTORY
OF MATHEMATICS OF THE THIRD ALL-UNION MATHEMATICAL CONGRESS

Yushkevich, A.P. (Moscow). On New Work in the USSR on the History of Mathematics	11
Ghedenko, B.V. (Kiev). On Certain Problems of the History of Mathematics	47
Yanovskaya, S.A. (Moscow). From the History of Axiomatics	63
Norden, A.P. (Kazan'). Problems on the Foundations of Geometry in the Works of N.I. Lobachevskiy	97

Card 3/8

Research in Mathematical History (Cont.)	SOV/1366
Kiro, S.N. (Odessa). Mathematics at the Congresses of Russian Naturalists and Physicians	133
Kol'man, E. (Moscow). On Certain Unsolved Problems in the History of Ancient Mathematics	159
Raik, A. Ye. (Saransk). New Reconstructions of Certain Problems from Ancient Egyptian and Babylonian Texts	171
LECTURES ON THE HISTORY OF MATHEMATICS	
Program on the History of Mathematics at the Moscow State University	185
Yanovskaya, S.A. (Moscow). Introductory Lecture to the Course "The History of Mathematics"	193

Card 4/8

Research in Mathematical History (Cont.)	SOV/1366
Rybnikov, K.A. (Moscow). On the Subject Matter of the History of Mathematics	209
Bashmakova, I.G. (Moscow). Lectures on the History of Mathematics in Ancient Greece	225
MISCELLANEOUS ARTICLES	
Gnedenko, B.V. and I.B. Pogrebysskiy (Kiyev). On the History of Mathematics and Its Significance for Mathematics and Other Sciences	441
Vetter, Q. (Prague). A Short Essay On the Development of Mathematics in Czech-dominated Areas Up to the Battle of Biela Gora	461
Rychlik, K. (Prague). The Theory of Real Numbers Found in the Manuscripts Left by Bolzano	515

Card 5/8

Research in Mathematical History (Cont.)	SOV/1366
Popa, I. (Jasi). Contributions to the History of Mathematics in Rumania	533
Glivich, A.N. (Kishinev). On the History of the Rumanian Mathematical Society (Relations Between Rumanian and Soviet Mathematicians)	563
Rybnikov, K.A. (Moscow). On the Algebraic Roots of Differential Calculus	583
Medovoy, M.I. (Tula). On One Case of the Application of Negative Numbers by Abu-l-Wafa	593

Card 6/8

Research in Mathematical History (Cont.)

sov/1366

TEXTS AND DOCUMENTS

Zuboye, V. P. (Moscow). The Treatise of Nicole Oresme "De Configuration Qualitatum"	601
Oresme, N. Treatise on the Configurations of Qualities	636
Zuboye, V. P. Comment on the Treatise by N. Oresme	720
Rozenfel'd, B. A. (Kolomna). Proofs of Euclid's Fifth Postulate by the Medieval Mathematicians ibn al-Haitam and Levi ben Gerson	733
ibn al-Haitam. A Book of Commentaries on the Introductions to Euclid's "Elements" (fragment)	743

Card 7/8

Research in Mathematical History (Cont.) SOV/1366

Levi ben Gerson. Commentaries on the Introductions
to Euclid's "Elements" (fragment) 763

Rozenfel'd, B. A. (Kolomna). Comments on the Proofs
by ibn al-Haitam and Levi ben Gerson 777
783

Name Index

AVAILABLE: Library of Congress

Card 8/8

LK/mtl
5-4-59

PA 29/49T65

KIRO, Ts. M.

USSR/Medicine - Histology
Medicine - Eels

Feb 49

"The Problem of the Histological Structure of the
Optic Center of the Brain in Cyclostomata," Ts. M.
Kiro, Inst of Experimental Med, Acad Med Sci USSR,
Leningrad, 4 pp

"Dok Ak Nauk SSSR" Vol LXIV, No 6

Clarifies problems on the histological structure of
the optic center of the brain in Cyclostomata and
sand eels. Submitted by Acad K. M. Bykov, 24 Dec 48.

29/49T65

4 02/92-67 EWT(1)

LJP(c) GD/AT/JXT

ACC NR: AT6031466

SOURCE CODE: UR/0000/64/000/000/0001/0078

AUTHOR: Kirochkin, Yu. A.

ORG: none

60

57

B+1

TITLE: On the theory of fluctuations in a magnetoactive plasma

SOURCE: Kharkov, Universitet, Dissertatsii. Kharkov, 1984. K teorii fluktuatsiy v magnitoaktivnoy plazme, 1-78

TOPIC TAGS: magnetoactive plasma, magnetohydrodynamics, wave propagation, wave excitation, alfvén wave, magnetoacoustic wave, kinetic energy theory

ABSTRACT: The dissertation is a theoretical study of the electrodynamic properties of a uniform magnetoactive plasma. Wave propagation and wave excitation by outside currents in a magnetoactive plasma are studied on the basis of the kinetic theory. Studies are made of fluctuations of various physical values characterizing the condition of magnetoactive plasma, processes of wave scattering, and reciprocal transformations of waves on fluctuations in magnetoactive plasma. Magnetohydrodynamic equations are used to determine the spectral function and some space and correlative functions for the fluctuation of velocity, magnetic field, temperature,

Card 1/2

L 05792-67

ACC NR: AT6031466

3

and other values. The differential cross sections of scattering and transformation of alfvén and magnetoacoustic waves are determined on the basis of the above correlative functions. In conclusion, the author expresses his sincere gratitude to Professor A. G. Sitenko for guidance and help in the work. He expresses deep gratitude to Academicians A. I. Akhiezer and I. A. Akhiezer for useful discussions on the subject of the dissertation. Orig. art. has: 337 formulas.

SUB CODE: 20 / SUBM DATE: none / ORIG REF: 053 / OTH REF: 011 /

Card 2/2 egh

S/141/62/005/006/007/023
E032/E114

AUTHOR: Kirochkin, Yu.A.

TITLE: On the theory of fluctuations in magnetic hydrodynamics

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Radiofizika, v.5, no.6, 1962, 1104-1114

TEXT: A non-ideal conducting medium placed in a constant and uniform magnetic field is considered. It is assumed that the medium is at a constant temperature and in a state of rest (on the average). The equations of magnetohydrodynamics are then linearised and expressions are obtained for the spectral distribution of correlation functions for fluctuations in the density, velocity, current, magnetic field and other quantities, taking into account the conductivity, viscosity and thermal conductivity of the medium. Since the scattering of electromagnetic and hydromagnetic waves in a conducting medium placed in a magnetic field is fully determined by these correlation functions, data which are obtained as a result of a study of the scattering of such waves can be used to determine the physical

Card 1/2

On the theory of fluctuations in ... S/141/62/005/006/007/023
E032/E114

characteristics of the medium with the aid of the formulas for
the correlation functions.

ASSOCIATION: Khar'kovskiy gosudarstvennyy universitet
(Khar'kov State University)

SUBMITTED: March 31, 1962

✓

Card 2/2

REF ID: A6513
AMMO/ASD/ESD-3/IVU/1
AMMO/ASD/ESD-3/IVU/1
AMMO/ASD/ESD-3/IVU/1

ACCESSION NR: AF 1004833

8/014/63/006/003/0469/0479

82
81

AUTHOR: Sitenko, A. G.; Kirochkin, Yu. A.

TITLE: Dispersion of electromagnetic waves by fluctuations in plasma in the presence of a magnetic field

SOURCE: IVUZ, Radiotekhnika, v. 6, no. 3, 1963, 469-479

TOPIC TAGS: electromagnetic wave, plasma, plasma fluctuations, thermal fluctuations

ABSTRACT: The present work, based on the theory of fluctuations developed by A. Akhiezer, et al. (ZhTF, 34, 1644, 1961), considers scattering of electromagnetic waves by fluctuations in nonisothermal plasma in the presence of a magnetic field; specifically, scattering by low-frequency Alfvén and magnetoacoustical fluctuations. Both electron-density and electron-velocity fluctuations are taken into account, as well as magnetic-field fluctuations. Spectral distribution of

Card 1/2

L-17297-63

ACCESSION NR: AP3004833

scattered radiation is determined. Neglecting the motion of ions, the electron magnetic field in plasma is described by a set of differential equations. This set is reduced to a wave equation which is solved and investigated. Correlation functions of electron-density, electron-velocity, and magnetic-field fluctuations are expressed in terms of correlators of electron and total currents with the use of Maxwell equations. It is noted that in a strongly nonisothermal plasma, the fundamental line in the spectrum of scattered radiation is split into four lines associated with the wave scattering by magnetocoustical fluctuations. Orig. ext. has: 41 formulas.

ASSOCIATION: Kharkovskiy gosudarstvennyy universitet (Kharkov State University)

SUBMITTED: 07Jul62

DATE ACQ: 27Aug63

ENCL: 00

SUB CODE: PH

NO REF SOV: 004

OTHER: 004

Card 2/2

SITENKO, A.G.; KIROCHKIN, Yu.A.

Scattering and transformations of waves due to thermal fluctuations
in magnetohydrodynamics. Zhur. tekh. fiz. 33 no.11:1354-1365 N
'63. (MIRA 16:12)

1. Institut fiziki AN UkrSSR i Khar'kovskiy gosudarstvennyy
universitet.

BYSTROV, V.N.; KIROD, R.G.

Staining furniture panels faced with oak veneer in ammonia
vapors. Der. prom. 14 no. 5:25-26 My '65. (MIRA 18:6)

1. Ivano-Frankovskaya mebel'naya fabrika.

BYSTROV, V.N.; KIROV, R.G.

Staining of panels veneered with oak sliced veneers using
ammonia vapor. Bim. 1 der. prov. no. 4240-41. O.D. '65.
(MIRA 18:12)

GUMBURG, D.M.; KIROKOSOV, Ye.N.

Conversion of stations with a high idle time to operation as through
blocking posts. Avtom., telem. i sviaz' 6 no.11:30-31 N '62.
(MIRA 15:11)

1. Nachal'nik otdela svyazi, tsentralizatsii i blokirovki
slushby signalizatsii i svyazi Severnoy dorogi (for Gamburg).
(Railroads—Switching)

KIROKOS'YANTS, M. Kh.
KIROKOS'YANTS, M. Kh.; LNYTIS, V. G.

Greater selection of antiseptics for the preservation of hides.
Leg. prom. 16 no. 8:44-45 Ag '56. (MIRA 10:12)
(Hides and skins) (Antiseptics)

KIRONSKIY, L.V.; DEGTYAROV, I.P.

Thermal stability of the domain structure in iron silicate crystals
[with summary in English]. Zhur. eksp. i teor. fiz. 35 no.3:584-586
S '58. (MIRA 12:3)

1. Institut fiziki Sibirskego etdeleniya AN SSSR,
(Iron silicate crystals)

KIROSHKA, G.P.

[On the basis of over-all mechanization] Na osnove kompleksnoi
mekhanizatsii. Kishinev, Partiinoe izd-vo TsK KP Moldavii,
1962. 18 p. (MIRA 15:7)
(Moldavia—Farm mechanization)

TETRADOV, A.N.; BRATT, D.M.; KIROSHEKA, M.V.; PUNCA, V.K.; BYRSAN, M.R.;
LIMPERT, M.D.; KERDIVARENKO, Ye.P.; SYRBUL, V.S.

Experience in the treatment of acute renal insufficiency following poisoning with distilled vinegar. Trudy Kish. gos. med. inst. 24:23-26 '64
(MIRA 18:1)

1. Urologicheskaya klinika Kishinevskogo gosudarstvennogo meditsinskogo instituta.

KIROSHKA, M.V.; FRENKEL', V. Kh.

Study of the function of kidneys in urolithiasis using radioisotope renography with cardiotrast I¹³¹. Trudy Kish. gos. med. inst. 24:156-170 '64 (MIRA 18:1)

1. Urologicheskaya klinika Kishinevskogo gosudarstvennogo meditsinskogo instituta i rentgentsentr Moldavskoy Respublikanskoy klinicheskoy bol'nitsy.

TETRADOV, A.N.; BRATT, D.M.; KIROSHEKA, M.V.; LEMPERT, M.D.; KERDIVARENKO, Ye.P.

Results of the use of the artificial kidney apparatus in acute
reanal insufficiencu following a septic abortion. Zdravookhra-
nenie 6 no.5:28-31 S-0'63 (MIRA 16:12)

1. Iz pochechmogo tsentra urologicheskoy kliniki (zav. - doktor
med. nauk S.D. Goligorskiy) Kishinevskogo meditsinskogo instituta.

KIROSOV, Ye.N.

The 36003 Repeater for automatic cab signaling. Avtom., telem. i
sviaz' 8 no.10:31 0 '64. (MIRA 17:11)

1. Nachal'nik otdela signalizatsii, tsentralizatsii, blokirovki i
svyazi Sosnogorskogo otdeleniya Severnoy dorogi.

ANDELOVA-KRIZOVA, Ml.; KIROUT, Jan

Radiotherapy of syringomyelia. Česk. neur. 22 no. 3:183-185 May 59.

1. Neurologicka klinika lekarske fakulty university Karlovy v Praze,
prednostra akad. prof. K. Henner.
(SYRINGOMYELIA, ther.
radiother. (Cz))
(RADIOTHERAPY, in var. dis.
syringomyelia (Cz))

KIROV, A.A., dotsent.

Simultaneous perforation of the stomach and vermiform appendix.
Vest.khir.76 no.8:127 S '55 (MLRA 8:11)

1. Iz gospital'noy khirurgicheskoy kliniki Arkhangel'skogo meditsinskogo instituta.
(STOMACH--ULCER) (APPENDICITIS)

KIROV, A.A., dotsent

The Grekov II operation in sigmoid volvulus. Vest.khir. 77 no.4:
114-116 Ap '56. (MLRA 9:8)

1. Iz gospital'noy khirurgicheskoy kliniki (Zav.-prof. G.M.Davydov)
Arkhangel'skogo meditsinskogo instituta. Arkhangol'sk, Meditsinskii
institut, kafedra gospital'noy khirurgii.

(INTESTINAL OBSTRUCTION, etiol. and pathogen.

volvulus of sigmoid colon, surg., Grekov II)
(COLON, dis.

volvulus of sigmoid, surg., Grekov II)

KIROV, A.A., dots; RAPPOPORT, M.B., kand. med. nauk. (Arkhangel'sk, ul. Komsomol'
skaya, d. 46, kv. 7)

A case of tumor of the carotid gland. Nov. khir. arkh. 5:118-119 S-0 '58.
(MIRA 2:1)

1. Kafedra gospital'noy khirurgii (zav. - prof. G.M. Davydov) i kafedra
patologicheskoy anatomii (zav. - kand. med. nauk M.B. Rapoport) Ar-
Khangel'skogo meditsinskogo instituta.
(CAROTID GLAND--TUMORS)

KIROV, A.A.

Functional state of a free skin graft at early and late stages. Eksp. khir. i anest. 6 no. 5:53-55 S-0 '61. (MIRA 15:3)

1. Iz kafedry gospital'noy khirurgii (zav. - prof. V.F. TSel') Arkhangel'skogo meditinskogo instituta (dir. - dotsent A.A. Kirov).
(SKIN GRAFTING)

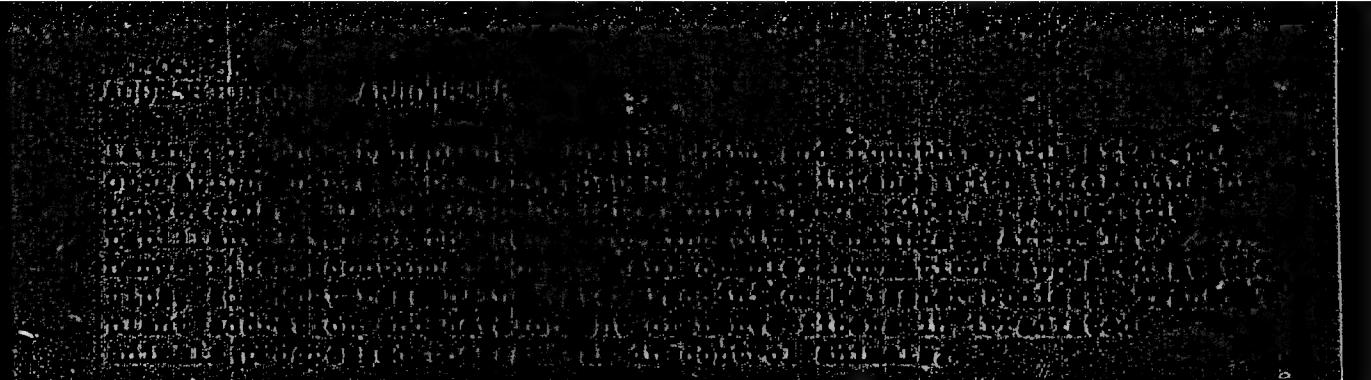
KIROV, A.A.

Restoration of the various qualities of sensation and types of nerve endings in free skin grafts after extensive burns. Acta chir. plast. 4 no.3:240-245 '62.

1. Surgical Hospital of the Archangelsk Medical Institute, Archangelsk (USSR) Director: Prof. V.F. Tsel.
(SKIN TRANSPLANTATION) (BURNS) (NERVE ENDINGS)

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000722710016-5

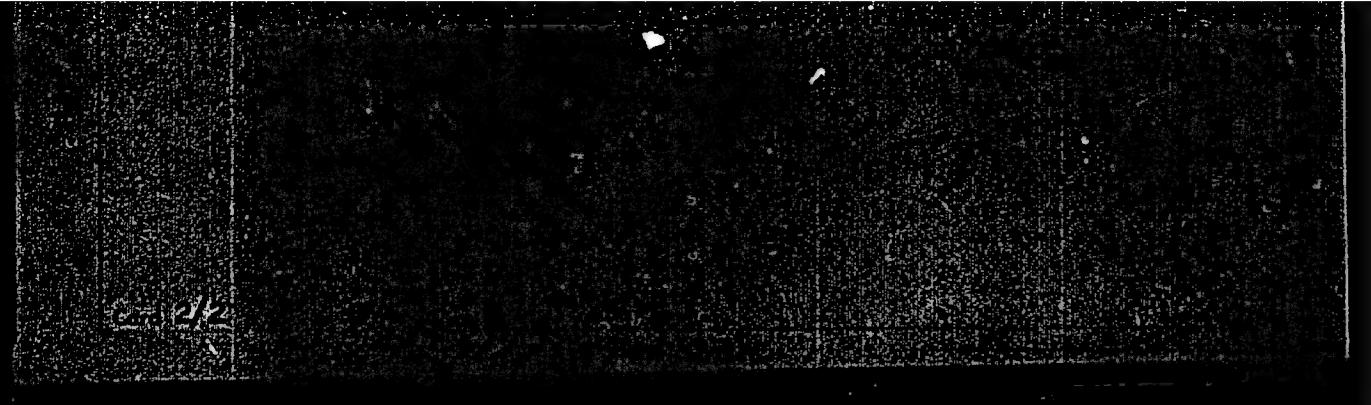


APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000722710016-5"

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000722710016-5



APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000722710016-5"

ORAKHOVATS, D. [deceased]; DRAGANOV, L.; VURBANOV, V.; MARKOV, M.; KIRCV, A.;
PAMPULOV, Z.; NACHEV, Ch.

Simultaneous recording of the arterial pressure, oscillography,
Korotkov's tones and pressure of the cuff of the brachial artery
by means of direct measurements in man. Izv. Inst. fiziol. (Sofia)
7:5-18 '64.

KIROV, D.

"First Congress Of the Union of Workers in Heavy Industry and Electrification", P. 1., (TESHKA PROMISLENOST, Vol. 3, No. 5, 1954, Sofiya, Bulgaria)

SO: Monthly List of East European Accessions, (DEAL), LC, VOL. 4, No. 6, June 1955, Uncl.

KIROV, D.

"Forward to new labor victories in honor of the First Congress of the Union of Workers
in Heavy Industry and Electrification!" Vol. 5, No. 3/4, Mar./Apr. 1954, p. 1.
Elektroenergiia, Sofiya.
SO: Eastern European Accessions List, Vol. 3, No. 11, Nov. 1954, L. C.

KIROV, D.

Complete fulfillment of pledges by workers and employees. p. 1.
ELEKTROENERGIIA, Sofiya, Vol. 6, no. 2, Feb. 1955.

SO: Monthly List of East European Accessions, (EEL), LC, Vol. 4, no. 10, Oct. 1955,
Uncl.

KIROV, G. (Ruse)

Laboratory work No.3 on physics in the 7th grade. Mat i fiz
Bulg 5 no.4:44-45 J1-Ag '62.

BAIEV, P. (Troian); KIROV, G. (Ruse); SAVOV, T. (Burgas); KHADZHIIVANOV, N.

Solutions to mathematical problems from Vol. 3. no.4, 1962.
Mat i fiz Bulg 6 no.1-47-51 Ja-F'63.

KIROV, G. (Ruse)

Our material base. Mat 4 ~~1~~ Bulg 7 no.6:33-37 N-D '64.

Kirov, G. A.

USSR/Transformation in Solid Bodies

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000722710016-5^{E6}

Abs Jour : Referat Zhur - Fizika, No 5, 1957, 11749

Author : Kyrov, G.A.

Inst

Title : On the Physical Properties of Films of Certain Magnesium Alloys.

Orig Pub : Tr. In-ta kristallogr. AN SSSR, 1955, vyp. 11, 124-133

Abstract : The electric and optical properties of thin layers of double alloys Mg-Di, Mg-Sb, and Mg-Sn, obtained by the variable-composition (Vekshinskiy) method, were investigated along with their interaction with air. It is observed that in variable-composition specimens there is a narrow range with anomalous properties (a jump in the specific electric resistivity, and an increase transparency), which lies between the portions that consist of the pure components. When exposed to air, the transparency and the electric resistivity of the anomalous portions increase. The

USSR/Transformation in Solid Bodies.

E-6

Abs Jour : Referat Zhur - Fizika, No 5, 1957, 11749

The interaction with air takes place most energetically for specimens of the Mg-Sb system and least energetically for the Mg-Bi system. In films of pure metals, no such phenomena are observed. It is concluded that the portions with the anomalous properties correspond to compounds Mg_3Sb_2 , Mg_3Bi_2 , and Mg_2Sn , which are unstable in air and in the form of compact specimens. The air partially or fully decomposes these compounds with formation of MgO or $Mg(OH)_2$, which is accompanied by a sharp increase in the electric resistivity and transparency.

Card 2/2

KIROV, Georgi K.

Notes on phase development in hydrogenic mineral formation
processes. Spis Bulg geol druzh 25 no.3:245-256 '64.

1. Geologic Institute of Bulgarian Academy of Sciences, Sofia.
Submitted July 31, 1963.

L 38340-66 EWT(1)/T IJP(c) 00

ACC NR: AP6027989

SOURCE CODE: BU/0011/66/019/001/0053/0056

AUTHOR: Kirov, G. N.38
BORG: Department of Mineralogy and Crystallography, Sofia University

TITLE: Growth spirals in natural cuprite

SOURCE: Bulgarska akademiya na naukite. Doklady, v. 19, no. 1, 1966, 53-56

TOPIC TAGS: crystal growth, copper compound

ABSTRACT: The Frank theory of spiral growth of crystals was confirmed in numerous cases; however, the number of minerals in which such observations have been made is still quite small. Recently, the phenomenon has been noticed on a sample found in the oxidation zone of a bed at Bzrdzeto in the Malko Tirnovo district and now at the Museum of the Department of Mineralogy of the Sofia University. It is a crystal of virgin copper exhibiting a very interesting morphology covered by cuprite crystals with cubic faces showing spiral layers. The paper presents micrographic and phase-contrast microscope pictures of the sample and interferograms of the spiral. A detailed crystallographic description of the mineral is also given. This paper was presented by Corresponding Member I. Kostov on 27 September 1965.

[JPRS: 36,844]

SUB CODE: 20 / SUBN DATE: 27Sep65 / OTH REF: 008

09/7 17'5

Card 1/1

KIROV, Georgi N.

Hemimorphite of the Luki region. Gcdishnik biol 56
285-295 '61/'62.

KIROV, Georgi N.

Hemimorphite from the Luki region. Godtsenit biul 56 no.2:285-
295 '61-'62 [Publ. '63].

KIROV, I.

AGRICULTURE

Periodical: OTCHETNOST I DONTROL NA SELSKOTO STOPLANSTVO. Vol. 3, No. 7, 1958.

KIROV, I. Conferences on production, a guarantee for the success of the accountant group. p. 292.

Monthly List of East European Accessions (EEAI), LC. Vol. 8, No. 2
February 1959, unclass.

KIROV, I., dotsent; SHUBAROV, K.; VYLNANOV, I. (Sofiya)

Megakaryocytic leukemias and their relation to osteomyelosclerosis.
Probl. gemat. i perel. krovi no.3:15-19 '62. (MIRA 15:3)

1. Iz kafedry infekcionnykh bolezney (zav. - dotsent I. Kirov)
Instituta usovershenstvovaniya vrachey i kafedry patologicheskoy
anatomii (zav. - prof. B. Kyrdzhiev) Meditsinskogo instituta.
(LEUKEMIA)

RACHEV, L., prof.; KIROV, Iv.; STOIANOVA, L.; NIMOVA, P.

Enuresis nocturna in children and its therapy. Suvrem.med., Sofis
5 no.11:3-10 1954.

1. Is detskata klinika pri Med. akademia V. Chervenkov - Sofia
(direktor: prof. L. Rachev)
(ENURESIS,
nocturnal, ther.)

MARINOV, D.; KIROV, Iv.; DAMIANOVA, M.

Sepsis in newborn. Suvrem.ned., Sofia 5 no.11:39-46 1954

1. Iz Katedrata po detski bolesti pri Med. akademiiia Vulko Chervenkov. (direktor: prof. L. Rachev)
(SEPTICEMIA AND BACTEREMIA, in infant and child,
newborn)
(INFANT, NEWBORN, diseases,
septicemia)

BASHIEVA, L.; KIROV, Iv.; NINOVA, P.

Aggravation of tuberculous meningitis during combined anti-bacterial therapy. Suvrem.med., Sofia 6 no.5:39-43 1955.

1. Iz Katedrata po detski bolesti pri Visshiia meditsinski institut V. Cherven-kov-Sofia(zav.katedrata: prof. L.Rachev)
(TUBERCULOSIS, MENINGEAL, therapy,
chemother, aggravation)

SHIPKOVSKI, Nikola prof. d-r; KIEOV, Ivan, d-r, asistent. RAICHEV, R;
VURBANOVA, St; DAMIADOV, M. student ot krushoka po nevrologiia.

Perainfectious encephalitis according to neuro-psychiatric and
pediatric clinic material observed during 1941-1950. Izv.med.
inst. Sofia 11-12:581-606 1955.

(ENCEPHALITIS,
perainfectious, hosp.statist.)

!

YANEVA, T.; KIROV, I.

Cerebellar syndrome in lymphogramulomatosis. Pediatriia, Moskva 36
no.8:63-65 Ag' 58.
(MIRA 12:1)

1. Iz Kafedry dotakoy kliniki (zav. - prof. L. Rachev) Sofiyskogo vysshego
meditsinskogo instituta, Bolgariya.
(HODGKIN'S DISEASE, in infant and child,
with cerebellar synd. (Rus))
(CEREBELLUM, diseases
cerebellar synd. in Hodgkin's dis. in child (Rus))

KIROV, I., dotsent; KHAYTOV, A., doktor

Diagnostic value of the prednisone test in epidemic hepatitis
and Jaundices of a different origin. Vop.med.virus. no.9:366-
370 '64. (MIRA 18:4)

1. Kafedra infektsionnykh zabolеваний pri Institute spetsializatsii
i usovershenstvovaniya vrachey, Sefiya, i Pervaya gorodskaya
infektsionnaya bol'nička, Sefiya, bolgariya.

KIROV, Iv.; KHAITOV, A.

Apropos of some aspects of modern therapy of virus hepatitis --
Botkin's disease. Suvr. med. (Sofia) 15 no.12:3-13 '64.

KIROV, Iv.

Bulgaria

Higher Medical Institute, Department of Infectious Diseases (VMI-Katedra po infektsionni bolesti),
Director: N. Koeva

Sofia, Pediatriya, No 1, 1966, pp 15-22.

"Pathogenesis, clinical manifestations and treatment of E. Coli infections in childhood."

Co-authors:

I. Bakalov
N. Koen

KIROV, IV.

~~Georgiev, IV.~~

Bulgaria

Higher Medical Institute, Department of Neurology
(VMI-Katedra po nevrologiya), Sofia; Director:
S. Boshinov, Prof.

Sofia, Pediatriya, No 1, 1966, pp 65-66.

"A Case of Acute Recurrent Serous Meningitis of
Adenoviral Etiology."

Co-authors:

Zh. Kuneva, Institute of Specialization of Advanced
Study of Physicians, Department of Infectious
Diseases (ISUL-Katedra po infektsionni bolesti).
Director: Iv. Kirov.

1/2

KIROV, Iv.

Bulgaria

Institute of Specialization and Advanced Study of
Physicians, Department of Infectious Diseases (ISUL-
Katedra po infektsionni bolesti), Director: Iv.
Kirov, Prof.

Sofia, Pediatriya, No 1, 1966, pp 111-115.

"An Attempt to Perform Diphtheria Immunization in
the Subacute Stage of Rheumatic Fever."

Co-authors:

POLIKAR, A.
RUMENOVA, A.

KIROV, K.

Relays with the electron tubes for time. p. 36.
(RADIO I TELEVIZIJA, Vol. 6, no. 4, 1957, Sofia, Bulgaria.)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 12, December 1957 Uncl.

KIRCV, K; KUREV, S.

"Effect of water vapors on the conductivity of some powdered materials; a new possibility for construction of electric hygrometers."

FIZIKO-MATEMATICHESKO SPISANIE, Sofia, Bulgaria, Vol. 2, no. 1, 1959

Monthly list of East Europe Accessions (EEAI), LC, Vol. 8, No. 6, Sept 59
Unclassified

KIROV, K.

BOICHEV, B., professor; BALCHEV, O.; KIROV, K.

Osteoarticular tuberculosis in Bulgaria and its therapy.
Khirurgia, Sofia 8 no.2:152-160 1955.

1. Institut za spetsializatsiia i usuvurshestvuvane na lekarite
klinika po ortopediia i travmatologija. Direktor: prof. B. Boichev
nauchno-issledovatelski institut po tuberkuloza. Direktor: dots.
St. Todorov Sanatorium za kostno-stavna tuberkuloza za vuzrasti
krai pancharevo. Zaveshdata: G. Balchev, St. Nauchen sutrudnik
(TUBERCULOSIS, OSTEOARTICULAR, epidemiology,
in Bulgaria)

KIROV, K.

Apparatus for active mechanical therapy for a contracted lower jaw. p. 20.

RATSIONALIZATSIIA. Vol. 6, no. 2, Feb. 1956

Sofia, Bulgaria

SOURCE: East European Accessions List (EEAL) Library of Congress, Vol. 6, No. 1, January 1957

KIROV, K.

Orositel, an apparatus for washing the oral cavity. p. 19

RATSIONALIZATSIIA. Vol. 6, No. 4, Apr. 1956

Sofiya, Bulgaria

So. East European Accessions List

Vol. 5, No. 9 September, 1956

RACHEV, Iv.; KIROV, K.

Case of successful electroshock therapy of psychosis in post encephalitis parkinsonism. Suvrem. med., Sofia 7 no.5: 89-93 1956.

1. Sluchai na uspeshno izlekuvane na psikhoza pri sledentsefaliten Parkinsonizum s elektroshok. Iz Psikho-neurologichnata bolnitsa--gara Karlukovo.

(PARALYSIS AGITANS, complications,
psychosis in post encephalitis parkinsonism,
electroshock ther. (Bul))

(ENCEPHALITIS, complications,
paralysis agitans with psychosis, electroshock ther. (Bul))

(PSYCHOSIS, complications,
postencephalitis paralysie agitans, electroshock ther. (Bul))

(SHOCK THERAPY, ELECTRIC, in various diseases,
psychosis in postencephalitis paralysie agitans (Bul))

KIROV, K.

Hepatic complications in the treatment of malaria. Suvrem. med., Sofia
8 no. 9:53-61 1957.

1. Iz Psich.-nevrologichnata bolnitsa - gara Kirlukovo. Gl. lekar:
P. Lazarov.

(SCHIZOPHRENIA, ther.
fever ther., causing liver dis.)
(FEVER THERAPY, in various dis.
schizophrenia, causing liver dis.)
(LIVER DISEASES, etiol. and pathogen.
fever therapy in schizophrenia)

KIROV, K.

BULGARI: Pharmacology and Toxicology. Tranquilizers

V-2

Abs Jour : Ref Zhur - Biol., No 15, 1958, No 71112

Author : Kirov K., Lazarov P., Petkov P., Aleksandrova M., Tsvetkova
St., Vasileva B.

Inst : -

Title : On the Treatment of Psychoses with Serpasil

Orig Pub : S"vrem. med., 1957, 8, No 10, 39-47

Abstract : In connection with experience of the use of serpasil (S) in psychoses, a beneficial, although sometimes transient, effect of S upon synapses of the emotional excitation in the maniacal states was noted. Favorable results were observed in the acute stage of paranoid and catatonic forms of schizophrenia, alongside with which there exists a distinct parallelism between the effect of S on the physical and psychic condition. In some cases of chronic schizophrenia, a temporary remission occurred. The previous treatment with S was improving and prolonging remissions following electro-convulsion therapy. Bibliography: 10 titles.

Card : 1/1

KIROV, K.; DONCHEV, P.; VASILEVA, B.

Acute yellow atrophy in treatment with largactil. Suvrem. med., Sofia
9 no.9:90-93 1958.

1. Iz Psichho-nevrologichnata bolnitsa v Karlukovo (Gl. Lekar: P. Petkov)
(CHLORPROMAZINE, inj. eff.
acute yellow atrophy (Bul))
(ACUTE YELLOW ATROPHY, etiol. & pathogen.
chlorpromazine (Bul))

BULGARIA

L. NAKOV and K. KIROV, Department of General Biology (Katedrata po obshcha biologiya) Head (rukoviditel) Prof R. POPIVANOV, VNI, Sofia.

"Studies of the Sex Chromatin in Healthy Individuals."

Sofia, Ekspериментална Медицина и Морфология, Vol 1, No 3, 1952;
pp 7-11.

Abstract [English summary modified]: Studies of 100 buccal mucosal cells from each of 300 healthy Bulgarian men aged between 18 and 49 revealed presence of sex chromatin in 0 to 3% (average 0.19%); in a comparable group of 300 women, 9 to 32% (average 17.44%). Graph, 3 cytograms, 3 tables; 3 Soviet, 1 Bulgarian and 11 Western references.

1/1

KIROV, K.; IAZAROV, P.; PETKOV, P.; ALEXANDROVA, M.; TSVETKOVA, St.; VASILEVA, B.

Observations on serpasil therapy of psychoses. Suvrem. med., Sofia 8
no. 10:39-47 1957.

1. Iz Psichho-nevrologichnata bolnitsa pri gara Karlukovo (Glaven Lekar:
P. Lazarov).

(PSYCHOSIS, therapy,

reserpine (Bul))

(RESERPINE, therapeutic use,

psychoses (Bul))

YEFIMOV, M.; BOCHAROV, S.; KIROV, K.; DOBREV, D.

Clinical aspects and treatment of cancer of the prostate. Uro-
logia no.5:43-48 '62. (MIRA 15:12)

1. Iz urologicheskogo otdeleniya (zav. M. Yenfedzhiyev) oblastnoy
bol'nitsy imeni Racho Angelova, Sofiya.
(PROSTATE GLAND--CANCER)

BULGARIA

K. KIROV [Affiliation not given]

"Neuroleptic Therapy and Process- and Defect-Symptoms in Schizophrenia."

Sofia, Nevrologiya i Psichiatriya, Vol 2, No 1, 1963; pp 32-36.

Abstract [English summary modified]: Based on observations of over 100 patients, author states that modern psychopharmacologic drugs affect only process (productive, active) and not defect (disintegrative, personality) changes. Will and intelligence are not restored, only objectionable behavior is suppressed. One case report; 5 Soviet, 1 Bulgarian and 26 Western references.

1/1

KIROV, K.; KALTSOVA, M.

Pulse current in CsS at the anode irradiation by α -particles.
Doklady BAN 17 no.1-5-8 '64

1. Predstavlenie akademikom G. Nadzhakovom, chlen Redaktsionnoy
kollegii "Doklady Bolgarskoy Akademii nauk."

KTROV, K.

Pulmonary eosinophilia in the Lat. Dokl. Boig. skat. nauk 19 no.7:
651-554 164.

i. Note presentee par A. Valkanov.

ZHIVKOV, S.; KIROV, K.; ABADJIEV, M.

Chromosome abnormalities in a patient suffering from Huntington's chorea. Dokl. Bolg. akad. nauk 18 no.4:389-392 '65.

1. Submitted on December 5, 1964.

L 15603-66 RH
ACC NR: AP6008222

SOURCE CODE: BU/0011/65/018/004/0389/0392

AUTHOR: Zhivkov, S., Kirov, K., Abadjiev, M.

26

ORG: Department of Biology, Higher Medical Institute; Department of Nervous Diseases, Post-Graduate Medical Institute

B

TITLE: Chromosome abnormalities in a patient suffering from Huntington's chorea

SOURCE: Bulgarska akademiya na naukite. Doklady, v. 18, no. 4, 1965, 389-392

TOPIC TAGS: human genetics, heredity, nervous system disease, neurology, man, cytology

ABSTRACT:

Huntington's chorea is a hereditary disease handed down in a dominant manner. Since no data exist in the literature concerning the cytogenetic investigations of this disease, the authors are publishing the results of a chromosome analysis of one 50-year-old male patient whose diagnosis was supported by the fact that the brother of the patient's father is suffering from chorea, too. The cytogenetic investigation was carried out on metaphase chromosomes of dividing leucocytes of the

Card 1/2

L 15603-66
ACO NR: AP6008222

patient's peripheral blood, cultivated by Moorhead's method as modified by Jungklaas (Dtsch. med. Wochenschr., 1963, 1200, 4). However, after presenting their results, the authors note that chromosome aberrations of the type described affecting group 6-12 have been observed by some authors, though rarely (N. P. Bishum et al., Lancet I, 1964, 936; R. K. Heller, Ibid., 1964, No 2, 481; J. Ruffie et al., Nouv. rev. fr., d'Haematol., 1964, 551). This fact as well as the isolated character of the present observation do not, as yet, furnish sufficient grounds for an assertion that the chromosome abnormalities described are specific for the disease and still less that they determine its appearance or development. The paper was submitted by K. Bratanov, Corresponding Member Bulgarian Academy of Sciences, 5 December 1964. Orig. art. has 6 figures.
[JPRS]

SUB CODE: 06 / SUBM DATE: none / UTH REF: 005

LB
Card 2/2

REF ID: A67111441
DATE 11/11/95 BY (11/11/95) FILE 018/002/0097/0100
LAW (6) TUP (c) JD/CG
ACC-NR: A67111441 SOURCE CODE: BU/0011/65/018/002/0097/0100

AUTHOR: Kirov, K.; Bendarov, V.; Mladenov, I.

ORG: Physics Institute, Bulgarian Academy of Sciences (Fizicheskiy institut, Bolgarskiy akademii na nauk)

TITLE: Recombination processes in CdS during α -particle excitation

SOURCE: Bulgarska akademiya na naukite, v. 18, no. 2, 1965, 97-100

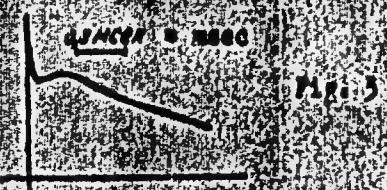
TOPIC TAGS: semiconductor theory, cadmium sulfide, single crystal, free electron, electron recombination, alpha particle, exciton, electron trapping

ABSTRACT: (Russian article) While the counting properties of CdS monocrystals are fairly well known, the problem of recombination of the free electrons excited by the ionizing particle was studied rather casually. Since the ionization density is very large, one may expect some peculiarities as compared with excitations by photons and, consequently, the author studied on a pulsed oscilloscope (range 1-7 Mc) the shape of the current pulse during the irradiations by P_{210} α particles. Such α particles were able to cross the 10-20 μ m thickness of the crystal and produce conduction channels. While within the -30 to +35°C interval the pulses seem to follow quite well the curves describable by the quadratic law recombination equation.

Card 1/2

14341-66
ACC. NR. AP5028769

(A) magnitude of the current pulse, \propto free-electron-hole recombination coefficient at lower temperatures of about -150-90 and at a certain degree of trap filling the pulse had a shape shown on Fig. 3.



It is possible that here the concentration of fine traps is comparable with the concentration of excited electrons, and these traps may then effect the fast part of the pulse. The work was presented by G. Nadzakov, 1 Nov 64, Orig. art. has 3 formulas, 2 graphs. [JPR9]

SUB CODE: SS / SUBN DATE: 010864 / 20TH REF: 003 / Sov REF: 002

KC
Card 2/2

KIROV, K.

"Safety devices of woodworking machinery", P. 41., (TESHKA PRIMISHLENOST,
Vol. 3, No. 6, 1954, Sofiya, Bulgaria)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4,
No. 6, June 1955, Uncl.

KIROV, Kiril, inzh., nauch. sutrudnik

New methods in testing resistance of wood cutting. Ratsionalizatsiya
14 no.4:28-31 '64.

1. NIPKIDMP, gr. Pazardzhik.

KIROV, Kiril M., inzh./, nauchen sutrudnik

Influence of certain factors on the physical and mechanical properties of chip boards. Durvomebel prom 6 no. 6:11-15 N-D '63.

1. NIPKIDMP, ~~Naardzhik.~~

KIROV, K.